Patricia A. Peshka

Purchasing Agent

Scott Avedisian

Mayor

City of Warwick
Purchasing Division
3275 Post Road
Warwick, Rhode Island 02886
Tel (401) 738-2000, Ext. 6240
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The following notice is to appear on the City of Warwick's website Thursday, June 30, 2016. The website address is http://www.warwickri.gov/bids.

CITY OF WARWICK
BIDS REQUESTED FOR

Bid2017-053 Scott Air-Pak 75 Breathing Apparatus & Related Equipment (Re-bid)

Specifications are available in the Purchasing Division, Warwick City Hall, Monday through Friday, 8:30 AM until 4:30 PM on or after Thursday, June 30, 2016. Please note that our offices will be closed on Monday, July 4, 2016.

Sealed bids will be received by the Purchasing Division, Warwick City Hall, 3275 Post Road, Warwick, Rhode Island 02886 up until 11:00 AM, Monday, July 11, 2016. The bids will be opened publicly commencing at 11:00 AM on the same day in the Lower Level Conference Room, Warwick City Hall.

Awards shall be made on the basis of the lowest evaluated or responsive bid price. Please note that no bids can be accepted via email or fax.

Individuals requesting interpreter services for the hearing impaired must notify the Purchasing Division at 401-738-2000, extension 6241 at least 48 hours in advance of the bid opening date.

Original Signature on File
Patricia A. Peshka
Purchasing Agent

PLEASE SUBMIT THIS PAGE WITH YOUR BID

Acknowledgement of Addendum (if applicable)

Addendum Number	Signature of Bidder
_____	_____
_____	_____

COMPANY NAME: _____

COMPANY ADDRESS: _____

COMPANY ADDRESS: _____

BIDDER'S SIGNATURE: _____

BIDDER'S NAME (PRINT): _____

TITLE: _____ TEL. NO.:_____

EMAIL ADDRESS: _____*

*Please include your email address. Future bids will be emailed, unless otherwise noted.

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II. AWARD AND CONTRACT:

The CITY OF WARWICK, acting as duly authorized through its Purchasing Agent/Finance Director/Mayor (delete if inapplicable), accepts the above bid and hereby enters into a contract with the above party to pay the bid price upon completion of the project or receipt of the goods unless another payment schedule is contained in the specifications. All terms of the specifications, both substantive and procedural, are made terms of this contract.

DATE: _____ _____

Bid2017-053 Purchasing Agent

CERTIFICATION & WARRANT FORM*

This form must be completed and submitted with sealed bid.
Failure to do so will result in automatic rejection.

Any and all bids shall contain a certification and warrant that they comply with all relevant and pertinent statues, laws, ordinances and regulations, in particular, but not limited to Chapter 16-Conflicts of Interest, of the Code of Ordinances of the City of Warwick. Any proven violation of this warranty and representation by a bidder at the time of the bid or during the course of the contract, included, but not limited to negligent acts, either directly or indirectly through agents and/or sub-contractors, shall render the bidder's contract terminated and the bidder shall be required to reimburse the City for any and all costs incurred by the City, including reasonable attorney fees, to prosecute and/or enforce this provision.

_____ _____
Signature Date

_____
Company Name

_____
Address

_____
Address

***This form cannot be altered in any way**

CITY OF WARWICK
NOTICE TO BIDDERS

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If you received this document from our homepage or from a source other than the City of Warwick Purchasing Division, please check with our office prior to submitting your bid to ensure that you have a complete package. The Purchasing Division cannot be responsible to provide addenda if we do not have you on record as a plan holder.

Bids received prior to the time of the opening will be securely kept, unopened. No responsibility will be attached to an officer or person for the premature opening of a bid not properly addressed and identified. No bids shall be accepted via facsimile or email.

The opening of bids shall be in the order established by the posted agenda and the agenda shall continue uninterrupted until completion.

Once an item has been reached and any bids on that item has been opened, no other bids on that item will be accepted and any such bid shall be deemed late.

The contractor will not discriminate against any employee or applicant for employment because of physical or mental handicap for any position for which the employee or applicant is qualified and that in the event of non-compliance the City may declare the contractor in breach and take any necessary legal recourse including termination or cancellation of the contract.

A bidder filing a bid thereby certifies that no officer, agent, or employee of the City has a pecuniary interest in the bid or has participated in contract negotiations on the part of the City, that the bid is made in good faith without fraud, collusion, or connection of any kind with any other bidder for the same call for bids, and that the bidder is competing solely in his own behalf without connection with, or obligation to, any undisclosed person or firm.

All bids should be submitted with one (1) original and one (1) copy in a sealed envelope, which should read: *YOUR COMPANY NAME* plainly marked on the exterior of the envelope as well as "Bid2017-053 Scott Air-Pak 75 Breathing Apparatus & Related Equipment (Re-bid)."

Should you have any questions, please contact Assistant Chief Kenney, Warwick Fire Department, at 401-468-4044.

All bids should be written in ink or typed. If there is a correction with whiteout, the bidder must initial the change.

Any deviation from the specifications must be noted in writing and attached as part of the bid proposal. The bidder shall indicate the item or part with the deviation and indicate how the bid will deviate from specifications.

The IRS Form W-9 attached should be completed and submitted with the bid if the bidder falls under IRS requirements to file this form.

When a bid is awarded to a corporation, limited liability company or other legal entity, prior to commencing work under the awarded bid, that corporation, company or legal entity may be required to provide to the Purchasing Agent a Certificate of Good Standing dated no more than thirty (30) days prior to the date upon which the bid award was made.

The successful bidder will provide said Certificate of Good Standing within ten (10) calendar days after notification of award or the City reserves the right to rescind said award.

The Certificate of Good Standing can be emailed to bids@warwickri.com.

Prices to be held firm two (2) years from date of award. Term contracts may be extended for one additional term upon mutual agreement unless otherwise stated.

The City is exempt from the payment of the Rhode Island Sales Tax under the 1956 General Laws of the State of Rhode Island, 44-18-30, Paragraph I, as amended.

The contractor must carry sufficient liability insurance and agree to indemnify the city against all claims of any nature, which might arise as a result of his operations or conduct of work.

The Purchasing Agent reserves the right to reject any and all bids, to waive any minor deviations or informalities in the bids received, and to accept the bid deemed most favorable to the interest of the City.

The City reserves the right to terminate the contract or any part of the contract in the best interests of the City, upon 30-day notice to the contractor. The City shall incur no liability for materials or services not yet ordered if it terminates in the best interests of the City. If the City terminates in the interests of the City after an order for materials or

services have been placed, the contractor shall be entitled to compensation upon submission of invoices and proper proof of claim, in that proportion which its services and products were satisfactorily rendered or provided, as well as expenses necessarily incurred in the performance of work up to time of termination.

No extra charges for delivery, handling or other services will be honored. All claims for damage in transit shall be the responsibility of the successful bidder. Deliveries must be made during normal working hours unless otherwise agreed upon.

All costs directly or indirectly related to the preparation of a response to this solicitation, or any presentation or communication to supplement and/or clarify any response to this solicitation which may be required or requested by the City of Warwick shall be the sole responsibility of and shall be borne by the respondent.

If the respondent is awarded a contract in accordance with this solicitation and the respondents bid or response and if the respondent fails or refuses to satisfy fully all of the respondents obligations thereunder, the City of Warwick shall be entitled to recover from the respondent any losses, damages or costs incurred by the City as a result of such failure or refusal.

The City reserves the right to award in part or full and to increase or decrease quantities in the best interest of the City.

Any quantity reference in the bid specifications are estimates only, and do not represent a commitment on the part of the City of Warwick to any level of billing activity. It is understood and agreed that the agreement shall cover the actual quantities ordered during the contract period.

The City reserves the right to rescind award for non-compliance to bid specifications.

The successful bidder must adhere to all City, State and Federal Laws, where applicable.

SPECIFICATIONS

The City of Warwick Fire Department is seeking bids for the purchase of Scott Air-Pak 75 breathing apparatus and related equipment.

The bid price will remain in effect for a period of two years from the date of award.

The following is a description of the self-contained breathing apparatus and the major subassemblies

"NO EXCEPTIONS"

***** GENERAL REQUIREMENTS

One (or more) open circuit, self-contained breathing apparatus consisting of the following major subassemblies:

1) cylinder and valve assembly for storing breathing air under pressure
2) full-face piece assembly
3) an automatic, dual path, redundant pressure reducing regulator
4) a removable, face piece-mounted, positive pressure breathing regulator with air-saver switch, low pressure alarm and purge valve
5) a harness and back frame assembly for supporting the equipment on the body of the wearer
6) a shoulder strap mounted remote gauge indicating cylinder pressure
7) a heads up-display redundant low pressure alarm
8) rapid intervention crew/universal air connection
9) an emergency breathing support system
10) certified to the NIOSH Chemical, Biological, Radiological and Nuclear (CBRN) standard.
11) Active Pak Tracker

The unit shall be covered by a warranty providing protection against defects in materials and workmanship. This warranty shall be for a period of ten years on the SCBA, except for the pressure reducer, which shall be covered for 15 years. No regularly scheduled overhaul or parts replacement shall be required in order to maintain the warranty.

Any electronic components under the 2013 ed. shall be warranted for a period of not less than three (5) years.

The SCBA will be certified by NIOSH/MSHA as conforming to the Code of Federal 42 CFR 84. This apparatus, without modification, shall be NIOSH/MSHA certified. The apparatus shall meet all requirements of NFPA-1981 Standard on Open-Circuit, Self-Contained Breathing Apparatus, 2013 Edition, depending upon assembly purchased. All spare components, including cylinder and valve assemblies, face piece assemblies, or other spare components installed onto the SCBA will maintain all NIOSH/MSHA, and NFPA certifications. All components supplied in accordance with this purchase will be new.

Successful bidder agrees to provide, at his own expense, a factory-trained instructor for such time as the department head shall require for complete instruction in the operation and maintenance of the apparatus.

Any exceptions to these specifications must be detailed in a separate attachment, and failure to do so will automatically disqualify the bidder. Successful bidder must be a factory-authorized distributor to sell the equipment specified herein.

*HARNESS & BACK FRAME ASSEMBLY

One-Piece Aluminum Version

A lightweight, lumbar support style back frame and harness assembly shall be used to carry the cylinder and valve assembly and the pressure reducing regulator assembly. The back frame shall be a solid, one-piece anodized aluminum frame that is contoured to follow the shape of the user's back. The back frame shall include a mounting for the pressure reducer. This mounting shall contain a slide-type bracket permitting positioning of the pressure reducer to accommodate connection to either an angled or straight type cylinder valve.

The back frame shall include an over-the center, adjustable tri-slide fixture, a Kevlar strap and a double-locking latch assembly to secure 30, 45 and 60 minute cylinders. The harness assembly shall consist of a one size black Kevlar strap with a yellow stripe. This harness shall include box-stitched construction with no screws or bolts. The harness assembly shall incorporate alligator, quick-release buckles and shall include shoulder and hip pads. The harness shall include a seat-belt type waist attachment. The back frame shall include accommodation and mounting spaces suitable for installation of a distress alarm integrated with the SCBA. These mounting spaces shall permit installation of an alarm sensor module in an area between the cylinder hangar locking mechanism and the back frame.

*CYLINDER & VALVE ASSEMBLY TYPE

General Cylinder requirements

The cylinder threads shall be straight with an O-ring or quad-ring gasket type seal. The cylinder valve shall be a "fail open" type, constructed of forged aluminum and designed such that no stem packing or packing gland nuts are required. It shall contain an upper and lower seat such that the pressure will seal the stem on the upper seat, thus preventing leakage past the stem. No adjustment shall be necessary during the life of the valve. The cylinder valve outlet shall be a modification of the Compressed Gas Association (CGA) standard threaded connection number 346 for breathing air (Proposed CGA connection NO. 347).

The valve shall be constructed such that damage will not occur if the coupling is over-torqued by hand. Each cylinder vale shall consist of the following: 1) a tri lobe hand activated valve mechanism with a spring loaded, positive action, ratchet type safety lock and lock-out release for selecting "lock open service" or "non-lock open service"; 2) an upstream connected frangible disc safety

relief device; 3) a dual reading pressure gauge indicating cylinder pressure at all times 4) an elastomeric bumper; 5) an angled outlet. Each cylinder and valve assembly shall be equipped with a hanger bracket for positive locking attachment of the assembly to the back frame. The SCBA shall maintain all NIOSH and NFPA Standards with any of the following types of cylinders listed as provided by the SCBA Manufacturer.

*CARBON CYLINDERS

4500 psi carbon cylinders

The cylinder shall be manufactured in accordance with DOT specifications and have a working pressure of 4500 psig. The cylinder shall be lightweight, composite type cylinder consisting of an aluminum alloy inner shell, with a total over wrap of carbon fiber, fiberglass and an epoxy resin. The cylinder shall include custom cylinder band logo with an image of the department patch and our numbering system. The cylinder options shall be 30, 45 or 60 minutes in duration. The 30-minute duration cylinder shall have a water capacity of 283 cubic inches and a free gas capacity of 45 SCF. The 45-minute duration cylinder shall have a water capacity of 418 cubic inches and a free gas capacity of 66 SCF. The 60-minute duration cylinder shall have a water capacity of 550 cubic inches and a free gas capacity of 87 SCF.

***AV-3000 HT Facepiece Assembly**

The AV-3000 HT facepiece with Kevlar Head Harness shall be NIOSH approved and NFPA compliant as a component of Scott NFPA 1981:2002, 2007 & 2013 Edition CBRN SCBA respirators.

The AV-3000 HT facepiece meets ANSI Z87.1-2010 standard for “impact” rating and shall be marked as “Z87+”.

Facepiec Assembly

The facepiece shall have a large diameter inlet serving as the female half of a quarter (1/4) turn coupling which mates with the positive pressure breathing regulator without the use of tools. The full facepiece assembly shall fit persons of varying facial shapes and sizes with minimal visual interference. The facepieces shall be available in three sizes, marked “S” for small, “M” for Medium and “L” for large. Nosecups shall be available in 3 sizes, marked “S”, “M” and “L, that may be used with AV-3000 HT facepieces.

The facepiece assembly, including head harness, shall be latex free. The facepiece shall include a faceseal that is secured to the lens by a U-shaped channel frame that is retained to the lens using two fasteners. The faceseal shall be a reverse reflex design seal design for enhanced fit and comfort. The facepiece shall contain inhalation valves that are readily visible to enable quick visual inspection.

The facepiece assembly shall be able to incorporate specific approved Scott electronic communications options (amplification, radio interface, wireless, etc) without affecting NIOSH approvals or NFPA/CBRN approvals where applicable.

The facepiece shall meet the requirements of NFPA 1981:2013 standards for mechanical voice intelligibility, and for amplified voice intelligibility with the EPIC 3 amplifier, EPIC 3 RI, and EPIC 3 Talk-Around.

The facepiece shall enable installation of communication brackets on either the right or left side.

Facepiece Lens

In accordance with NIOSH 42 CFR part 84, the AV-3000 HT facepiece meets penetration and impact requirements, including compliance with ANSI Z87.1 – 2010. The lens is a component of the facepiece assembly, and shall be a single, replaceable, modified cone configuration constructed of a high temperature and radiant heat resistant non-shatter type polycarbonate material.

The lens shall be coated to resist abrasion and chemical attack and meet the requirements of NFPA-1981 ’02, ’07 and ’13 editions for lens abrasion. The lens shall meet the requirements of NFPA 1981: 2013 Ed. standard for radiant heat and high heat and flame tests.* The lens shall have an anti-fog coating to reduce fogging of the lens.

Head Harness

The head harness is a component of the facepiece assembly, and shall be a five-point suspension made in the fashion of a net hood to minimize interference between securing of the facepiece and the wearing of head protection, and be constructed of a para-aramid material for fire, first responder and CBRN applications.

Warranty

Scott Safety warrants the Facepiece Assembly to be free from defects in workmanship and materials for a period of ten (10) years from the date of original manufacture by SCOTT.

For the purposes of safety, ease of training, and reduce time and cost of fit testing, the same face piece that is utilized on the SCBA shall also be capable of being used with:

* a 5 or 10 minute combination SCBA/Supplied Air Respirator (SAR)
* a powered air purifier with cartridges designed for protection against chemical and biological weapons
* cartridges designed for protection against chemical and biological weapons in a negative pressure mode.
* NIOSH approved chemical cartridges designed for protection against a variety of hazardous chemicals and particulates in a negative pressure mode.

*RAPID INTERVENTION CREW/UNIVERSAL AIR CONNECTION (RIC/UAC)

The SCBA shall incorporate a RIC/UAC fitting to be compliant with the 2013 edition of the NFPA 1981 Self-Contained Breathing Apparatus standard. The RIC/UAC shall be an integral part of the high-pressure hose that attaches the cylinder valve to the first stage pressure reducer. The RIC/UAC inlet connection shall be within 4" (4 inches) of the tip of the CGA threads of the cylinder valve. The RIC/UAC shall consist of a connection for attaching a high-pressure air source and a self-resetting relief valve allowing a higher pressure than that of the SCBA to be attached to the SCBA. The RIC/UAC shall have a check valve to prevent the loss of air when the high pressure air source has been disconnected.

*FACE PIECE-MOUNTED POSITIVE PRESSURE REGULATOR CBRN APPROVED

This face piece-mounted positive pressure-breathing regulator shall supply and maintain air to the face piece to satisfy the needs of the user at a pressure greater than atmospheric by no more than 1.5 inches of water pressure. The breathing regulator shall maintain this positive pressure during flows of up to 500 standard liters per minute. The regulator shall also meet or exceed a dynamic flow requirement of remaining positive while supplying a minute volume of 160 liters.

The breathing regulator shall have attached a low-pressure hose which shall be threaded through the left shoulder strap to couple to the pressure reducing regulator mounted on the back frame.

The breathing regulator outlet port shall be configured as the male half of a quarter (1/4) turn coupling which mates with face piece and shall be equipped with a doughnut-shaped gasket which provides the seal against the mating surface of the face piece. The regulator cover shall be fabricated of a flame resistant, high impact plastic.

The breathing regulator shall also have an integral low-pressure alarm device that shall combine an audible alarm with simultaneous vibration of the face piece. This alarm device shall indicate either low cylinder pressure or primary first stage regulator failure.

An optional low-pressure alarm shall be integrated into the regulator purge body that provides a visual flashing LED alarm clearly visible to the individual wearing the SCBA. The breathing regulator shall have a demand valve to deliver air to the user, activated by a diaphragm responsive to respiration. This diaphragm shall include the system exhalation valve and shall be constructed from a high strength silicone elastomer. The demand valve shall use an extended temperature range dynamic O-ring seal composed of a fluorosilicone elastomer.

A purge valve shall be situated at the inlet of the breathing regulator and shall be capable of delivering airflow of between 125 and 175 standard liters per minute. The breathing regulator shall be arranged to direct the incoming air over the inner surface of the face piece for defogging purposes. The components of the breathing regulator shall be constructed of materials that are not vulnerable to corrosion. The flame resistant cover shall contain an air saver switch and pressure demand bias mechanism. It shall reactivate and supply air only in the positive pressure mode when the wearer affects a face seal and inhales. This device shall not affect the breathing flow through the system while in operation.

Cleaning and disinfecting of the regulator shall be accomplished by spraying an EPA certified cleaner/disinfectant solution directly into the regulator. Disassembly of the regulator shall not be required in order to clean and disinfect the regulator.

*END OF SERVICE INDICATOR (EOSTI) AND HEADS-UP DISPLAY (HUD)

The SCBA shall have two end-of-service (EOSTI) indicators. The primary EOSTI shall be the integral low-pressure alarm device that shall combine an audible alarm with simultaneous vibration of the face piece. The primary EOSTI shall be located in the Face Piece-Mounted Positive Pressure Regulator and shall indicate either low cylinder pressure (33%) or primary first-stage regulator failure.

The HUD shall serve as the secondary EOSTI indicator. It shall be mounted in the user's field of vision on the second stage regulator. It shall display cylinder pressure increments of 100, 66%, & 33% bottle pressure. The display shall not have a numerical representation of bottle pressure. At one-half bottle pressure, one "yellow" LED shall be illuminated and flash at a rate not to exceed one (1x) time per second. At one-third (2013 ed.) bottle pressure, one "red" LED shall be illuminated and flash at a rate not to exceed ten (10x) times per second. The HUD shall have a low battery indication that is distinct and distinguishable from the bottle pressure indications.

*PRESSURE REDUCER

The pressure-reducing regulators shall be mounted on the back frame and be coupled to the cylinder valve through a short length of internally armored high pressure hose with a hand coupling for engagement and sealing within the cylinder valve outlet. In lieu of a manual by-pass, the pressure-reducing regulator shall include a back-up pressure-reducing valve connected in parallel with the primary pressure reducing valve and an automatic transfer valve for redundant control. The back-up pressure reducing valve shall also be the means of activating the low-pressure alarm devices in the face piece-mounted breathing regulator. This warning shall denote a switch from the primary reducing valve to the back-up reducing valve whether from a malfunction of the primary reducing valve or from low cylinder supply pressure.

A press-to-test valve shall be included to allow bench testing of the back-up reducing valve. The pressure-reducing regulator shall have extended temperature range dynamic O-ring seals composed of fluorosilicone elastomer. The pressure reducing regulator shall have incorporated a reseatable over-pressurization relief valve which shall prevent the attached low pressure hose and facepiece-mounted breathing regulator from being subjected to high pressure.

A standard dual-outlet manifold shall also have provision for connection of an optional airline supply for extended duration use while reserving the cylinder supply for egress. The airline supply hose length shall be up to 300 feet and require an inlet pressure range of 60 to 115 psig, depending on the length of supply hose used. A check valve within the outlet manifold shall prevent the external release of cylinder air in the event the airline supply is either not used or disconnected.

Switching from airline supply to cylinder supply shall be accomplished manually by the user, by opening the cylinder valve to prevent inadvertent use of the cylinder supply without the user's knowledge. The outlet manifold shall also contain a second outlet port capable of being fitted with an auxiliary supply hose to support a second breathing regulator for the purpose of rescue only. The auxiliary hose shall be located on the primary wearer's right shoulder and be terminated with a female quick connect fitting which can be easily connected and disconnected by trained individuals with a gloved hand and/or in low light conditions. The coupling shall also be guarded against inadvertent disconnect during use of the equipment. When operated in this mode, supplying two breathing regulators, the primary wearer's pressure reducer shall be capable of simultaneously supplying each regulator with a flow of at least 200 liters per minute while maintaining positive pressure in the respective facepieces.

*DUAL EBSS (EMERGENCY BREATHING SUPPORT SYSTEM)

Dual EBSS shall be available in-lieu of the optional airline supply and shall have one of each of the following requirements; (1) a manifold with one each of a female socket and male plug, both of which have check valves, (2) 40" minimum low-pressure hose, (3) a containment system with means of attaching the manifold to the waist belt with a ¼-turn action, (4) a pouch for storing the hose, and (5) a dust cap for the female socket and male plug. The Dual EBSS system shall be on the wearer's left side and shall be capable of allowing for six (6) feet of hose between like systems.

The manifold shall be made of aluminum and be anodized black. The female socket and male plug shall have spacing, no less than 15° off-center. The female socket shall have a double action to disengage, noted as a "push-in/pull-back". The female socket shall have an internal check valve. The male plug shall have an external check valve. The hose shall be made of high temperature rubber capable of sustaining a maximum 250 psig of pressure.

The containment system shall include a pouch and shall be made of para-aramid materials and shall be capable of storing 36" of hose. The pouch shall be attached to the SCBA by pull-the-dot fasteners.

*EPIC 3 VOICE AMPLIFIER

The voice amplification device shall be mounted to the facepiece by means of a bracket that is secured around the voice emitter of the facepiece. The device shall contain a bayonet-style mounting fixture that enables the user to insert the voice amplifier into the bracket and secure it with a quarter-turn counter-clockwise when it shall lock into place. The device shall contain a thumb latch to permit removal when it is pressed and the device is rotated a quarter-turn clockwise. The thumb latch shall contain a captive screw that enables the user to prevent removal.

The device shall weigh no more than 7 ounces 225 (grams) and its size shall not exceed the following dimensions: Length: 3.50 inches; (8.89 cm); width: 2.0 inches (5.08 cm); depth (extension from voice emitter): 1.75 inches (4.44 cm).

The device shall be able to be upgraded to a voice amplifier, radio interface, and stand-alone radio communication system that all reside in a single housing with a single power source.

The device shall contain a momentary on/off switch with a tactile indication and audible click when depressed. The switch shall be covered with a sheath made of a silicone material. The device shall contain an LED which illuminates green when the device is activated and flashes once per second when a low battery condition (approximately 10% of battery life remaining) is present. The device shall provide audible tones to indicate that the system has been energized, de-energized and to provide a low battery indication.

The device shall be powered by three AAA alkaline batteries, which shall provide no less than 50 hours of continuous operation with fully-charged batteries. The batteries shall be contained in a gasketed compartment secured in place by means of a fastener. The door of the battery compartment shall be user-replaceable. The device shall contain an automatic shut-down function that de-energizes the voice amplifier approximately 20 minutes after the last time the user speaks. Designed to conserve battery life when a user forgets to turn off the voice amplifier, the voice amplifier shall be reactivated after shut down by pressing the on/off switch.

The microphone shall be located on the surface of the bayonet mounting fixture and voice projection shall be facilitated by means of a circular gasket that seals the device to the communications mounting bracket. The amplifier shall contain a custom speaker designed for pushing sound through background noises commonly found at emergency events. The device shall not feedback for longer than 1 second when worn on a level A haz-mat suit. The device shall be able to provide a minimum STI score of 0.65, even though NFPA minimum requirement is 0.60.

The voice amplifier, when attached to an AV-3000 HT facepiece, shall be able to withstand a 30 minute tumble test. A single voice amplifier shall be able to withstand eight, 6 foot drops, once on each side and on two edges. The voice amplifier shall be able to withstand a 30 minute tumble test not attached to the facepiece. The voice amplifier shall be an approved accessory on the following types of respirators: NIOSH APR, NIOSH Supplied Air, NFPA 1981, 2002 and 2007 edition, and NIOSH CBRN. The voice amplifier shall have been submitted for 2013 approval.

<u>*DISTRESS ALARM INTEGRATED WITH SCBA</u>

General Specifications

The distress alarm shall be capable of integration with a NIOSH certified self-contained breathing apparatus and this integrated SCBA and distress alarm system shall retain NIOSH certification. The system shall meet all requirements of NFPA-1982 Standard on Personal Alert Safety Systems (PASS), 2013 ed., depending upon unit purchased. Operation of this distress alarm shall be initiated with the opening of the valve of an SCBA charged cylinder. A visual indication of automatic mode activation shall consist of a green flashing LED on the system's control module.

Dual Alarms

The system shall incorporate dual visual and audible alarms, which shall be activated in a pre-alarm mode when the system remains motionless for approximately 20 seconds. A full alarm shall be

activated in the event the system remains motionless for approximately 30 seconds along with a 500 Hz audible signal.

Visual signals shall consist of a green flashing LED when the system is in operation and red flashing LED's to indicate pre-alarm mode, full alarm mode and a low battery condition. The system's LED signals shall be situated on a control console assembly mounted on the user's right shoulder strap. The system shall have a visual LED indicator to check the battery condition while the system in not is use.

The alarm signal shall be in a frequency range of 1 kHz to 4 kHz and consist of three primary frequencies. Sound pressure level shall be >95 dBA. The pre-alarm signal shall be in a frequency range of 1 kHz to 2 kHz and consist of two primary frequencies, the sound pressure level shall ramp up in two distinct steps from 60 to >100 dBA.

Control Console

The pressure gauge shall be an integral part of the control console assembly. The control console shall come with a mechanical (analog) pressure gauge that is angled at 30°.The control console assembly shall contain push buttons for manual operation of the distress alarm. A yellow color-coded push button shall permit system re-set; a red color-coded push button shall permit manual activation of the full alarm mode. Both push buttons shall be designed to minimize accidental activation. The system shall feature a "hands-free" re-set capability that may be activated by means of a slight movement of the SCBA when the system is in a prealert mode. The control console shall contain an edge lit pressure gauge that requires no action by the user to turn on except open the cylinder valve. It shall also contain a photo sensing diode to dim and brighten the HUD as the environment changes.

Sensor Module

The system shall include a sensor module mounted to the SCBA backframe and located in an area between the cylinder and backframe in a manner designed to protect the assembly from damage. The sensor module shall contain dual sound emitters for the audible alarm and dual visual "buddy" indicators. The sensor module shall operate on six "AA" batteries that are located in the control console assembly. The battery life of the SCBA with PASS only shall be no less than 200 hours.

The visual indicators shall flash as follows; 1) when the device is in pre-alert as defined by NFPA 1982, 2013 ed., depending upon unit purchased; 2) when the device is in full-alert as defined by NFPA 1982, 2013 ed., depending upon unit purchased; and 3) when the SCBA has reached 1/4 or 1/3 bottle pressure, depending upon unit purchased as defined by 42 CFR.

Intrinsically Safe

The distress alarm system shall be listed as intrinsically safe in accordance with ANSI/ UL 913 Class I, Groups C and D, Class II, Groups E, F, and G, Hazardous locations.

DELIVERY

Delivery of all products is to be included in the bid pricing.

Additional expenses will not be allowed (mileage, fuel charges, etc). Any and all fees must be included in the bid.

REQUIRED: All bids submitted must identify the bid items using the exact item numbers as specified on the pricing sheets. (Used for purpose of separating awarded items to vendors).

Item

1) Scott P/N AP2240203200301
   Pak 75, 2007 ed. w/PASS, Pak Tracker, Dual EBSS, Spring Clips

2) Scott P/N X3224021200301
   Pak 75, 2013 ed. w/PASS, Pak Tracker, Dual EBSS, Spring Clips

3) Scott Pak 75, 2013 ed. complete assembly consisting of;
   (1) Pak 75 P/N X3224021200301
   (1) Mask P/N 201215-05
   (2) Bottles P/N 804721-01

4) Scott P/N 201215-04
   AV3000 HT, 2013 ed. w/open bracket on right side, Small

5) Scott P/N 201215-05
   AV3000 HT, 2013 ed. w/open bracket on right side, Medium

6) Scott P/N 201215-06
   AV3000 HT, 2013 ed. w/open bracket on right side, Large

7) Scott P/N 201215-01
   AV3000 HT, 2013 ed. w/out bracket, Small

8) Scott P/N 201215-02
   AV3000 HT, 2013 ed. w/out bracket, Medium

9) Scott P/N 201215-03
   AV3000 HT, 2013 ed. w/out bracket, Large

10) Scott P/N 201210-01
    Epic 3 voice amp bracket only, right side, 2013 ed.

11) Scott P/N 201275-01
    Epic 3 Voice amp only, 2013 ed., No bracket

12) Scott P/N 200260-01
    EPIC Voice Amp only, No bracket

13) Scott P/N 200715-01
    Epic voice amp bracket only, right side

14) Scott P/N 804721-01
    30 min. 4500 psig. Carbon Cylinder and Valve Assembly

15) Scott P/N 807422-01
    45 min. 4500 psig. Carbon Cylinder and Valve Assembly

16) Scott P/N 804723-01
60 min. 4500 psig. Carbon Cylinder and Valve Assembly

17) Scott P/N 10009671
30 min. 4500 psig. Carbon Cylinder only, No valve assembly

18) Scott P/N 10009673
45 min. 4500 psig. Carbon Cylinder only, No valve assembly

19) Scott P/N 10009672
60 min. 4500 psig. Carbon Cylinder only, No valve assembly

20) Scott P/N 200802-01
AV-3000 Facepiece Assembly with SureSeal, Small

21) Scott P/N 200802-02
AV-3000 Facepiece Assembly with SureSeal, Medium

22) Scott P/N 200802-03
AV-3000 Facepiece Assembly with SureSeal, Large

23) Scott P/N 200803-01
AV-3000 5 Point Kevlar

24) Scott P/N 804178-02
AV-3000 Band Assembly, Temple

25) Scott P/N 804176-02
AV-3000 Band Assembly, Neck

26) Scott P/N 200840-01
AV-3000 Center Top Strap

27) Scott P/N 805753-01
Prescription Lens Kit for AV-3000 with SureSeal Nose Cup Mounted RX Frame

28) Scott P/N 200372-52F
Prescription Lens Kit for AV-3000 with SureSeal Mask Mounted 52mm RX Lens Kit

29) Scott P/N 200372-60F
Prescription Lens Kit for AV-3000 with SureSeal Mask Mounted 60mm RX Lens Kit

30) Scott P/N 200954-02
RIT-Pak III Assy. Complete w/ 6’ EBSS Hose x 5’ RIC Hose,
E-Z Flow quick connect regulator and modified AV3000 SureSeal
Facepiece

31) Scott P/N 805534-01
Fleece Facepiece Bag

32) Scott P/N 31001087
EPIC Voice Amplifier Battery Door Assembly

33) Scott P/N 31001089
EPIC Voice Amplifier bayonet thumb latch locking lever

34) Scott P/N 201126-02
Nosecup assembly, AV3000 HT, red valves, Small

35) Scott P/N 201127-02
Nosecup assembly, AV3000 HT, red valves, Medium

36) Scott P/N 201128-02
Nosecup assembly, AV3000 HT, red valves, Large

37) Scott P/N 200688-S430
Cylinder cap, 30 minute

38) Scott P/N 200688-D430
Cylinder cap, 30 minute

39) Scott P/N 200688-S445
Cylinder cap, 45 minute

40) Scott P/N 200688-D445
Cylinder cap, 45 minute

41) Scott P/N 200689-01
Install kit for 4 sets of caps

42) Scott P/N 200689-02
Install kit for 20 sets of caps

43) Field level maintenance class

PRICING PAGE

REQUIRED: All bids submitted must identify the bid items using the exact item numbers as specified on the pricing sheets. (Used for purpose of separating awarded items to vendors) Must use this form for quoting prices!

ITEM #	Scott P/N	YEAR 1	YEAR 2
1	Scott P/N AP2240203200301		
2	Scott P/N X3224021200301		
3	Scott Pak 75, 2013 ed. complete assembly consisting of; (1) Pak 75 P/N X3224021200301 (1) Mask P/N 201215-05 (2) Bottles P/N 804721-01		
4	Scott P/N 201215-04		
5	Scott P/N 201215-05		
6	Scott P/N 201215-06		
7	Scott P/N 201215-01		
8	Scott P/N 201215-02		
9	Scott P/N 201215-03		
10	Scott P/N 201210-01		
11	Scott P/N 201275-01		
12	Scott P/N 200260-01		
13	Scott P/N 200715-01		
14	Scott P/N 804721-01		
15	Scott P/N 807422-01		
16	Scott P/N 804723-01		
17	Scott P/N 10009671		
18	Scott P/N 10009673		
19	Scott P/N 10009672		
20	Scott P/N 200802-01		
21	Scott P/N 200802-02		
22	Scott P/N 200802-03		
23	Scott P/N 200803-01		
24	Scott P/N 804178-02		
25	Scott P/N 804176-02		

(continued next page)

ITEM #	Scott P/N	YEAR 1	YEAR 2
26	Scott P/N 200840-01		
27	Scott P/N 805753-01		
28	Scott P/N 200372-52F		
29	Scott P/N 200372-60F		
30	Scott P/N 200954-02		
31	Scott P/N 805534-01		
32	Scott P/N 31001087		
33	Scott P/N 31001089		
34	Scott P/N 201126-02		
35	Scott P/N 201127-02		
36	Scott P/N 201128-02		
37	Scott P/N 200688-S430		
38	Scott P/N 200688-D430		
39	Scott P/N 200688-S445		
40	Scott P/N 200688-D445		
41	Scott P/N 200689-01		
42	Scott P/N 200689-02		
43	Field level maintenance class		

CITY OF WARWICK

BID AND CONTRACT FORM

TITLE OF SPECIFICATION: Bid2017-053 Scott Air-Pak 75 Breathing Apparatus & Related Equipment (Re-bid)

I. BID:

WHEREAS, the CITY OF WARWICK has duly asked for bids for performance of services and/or supply of goods in accordance with the above-indicated specifications.

The person or entity below does irrevocably offer to perform the services and/or furnish the goods in accordance with the specifications, which are hereby incorporated by reference in exchange for the bid price below;

This offer shall remain open and irrevocable until the CITY OF WARWICK has accepted this bid or another bid on the specifications or abandoned the project.

The bidder agrees that acceptance below by the CITY OF WARWICK shall transform the bid into a contract. This bid and contract shall be secured by Bonds, if required by the specifications.

Pricing as Submitted